

蛋白特异鸟嘌呤核苷酸释放因子 2 抗体

产品货号： mlR19735

英文名称： RASGRP2

中文名称： Ras 蛋白特异鸟嘌呤核苷酸释放因子 2 抗体

别 名： Calcium and DAG-regulated; Calcium and DAG-regulated guanine nucleotide exchange factor I; Calcium-and diacylglycerol-regulated guanine nucleotide exchange factor I; CalDAG-GEFI; Cdc25 like protein; Cdc25-like protein; F25B3.3 kinase like protein; F25B3.3 kinase-like protein; GRP2_HUMAN; hCDC25L; RAS guanyl releasing protein 2; RAS guanyl-releasing protein 2; Rasgrp2.

研究领域： 细胞生物 信号转导 结合蛋白 G 蛋白偶联受体 表观遗传学

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Cow,

产品应用： WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500
(石蜡切片需做抗原修复)

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分 子 量： 69kDa

细胞定位： 细胞浆

性 状： Lyophilized or Liquid

浓 度 : 1mg/ml

免 疫 原 : KLH conjugated synthetic peptide derived from human RASGRP2:351-450/609

亚 型 : IgG

纯化方法 : affinity purified by Protein A

储 存 液 : 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 : Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed : PubMed

产品介绍 : The protein encoded by this gene is a brain-enriched nucleotide exchanged factor that contains an N-terminal GEF domain, 2 tandem repeats of EF-hand calcium-binding motifs, and a C-terminal diacylglycerol/phorbol ester-binding domain. This protein can activate small GTPases, including RAS and RAP1/RAS3. The nucleotide exchange activity of this protein can be stimulated by calcium and diacylglycerol. Three alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Function:

Functions as a calcium- and DAG-regulated nucleotide exchange factor specifically activating Rap through the exchange of bound GDP for GTP. May also activates other GTPases such as RRAS, RRAS2, NRAS, KRAS but not HRAS. Functions in aggregation of platelets and adhesion of T-lymphocytes and neutrophils probably through inside-out integrin activation. May function in the muscarinic acetylcholine receptor M1/CHRM1 signaling pathway.

Subcellular Location:

Cytoplasm > cytosol. Cell membrane. Cell junction > synapse > synaptosome. Cell projection > ruffle membrane. Found both in the cytosol and associated with membranes. Isoform 2 mainly localizes to the cell membrane.

Enriched at juxtamembrane areas and membrane ruffles through association with F-actin. Localizes to the cell bodies and axons of striatal neurons.

Tissue Specificity:

Detected in platelets, neutrophils and T lymphocytes (at protein level). Expressed in brain where it is enriched in the striatum. Also expressed in the hematopoietic system. Detected in heart, brain, lung, placenta, liver, skeletal muscle and kidney.

Post-translational modifications:

Isoform 2 is palmitoylated and myristoylated while isoform 1.

Similarity:

Belongs to the RASGRP family.

Contains 2 EF-hand domains.

Contains 1 N-terminal Ras-GEF domain.

Contains 1 phorbol-ester/DAG-type zinc finger.

Contains 1 Ras-GEF domain.

SWISS:

Q7LDG7

Gene ID:

10235



Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.